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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/532,572	02/06/2006	Angus Peter Robson	12000057-0006-002	4280	
2635. 759 (27)192010 SONNENSCHEIN NATH& ROSENTHAL LLP P.O. BOX 061080 WACKER DRIVE STATION, WILLIS TOWER CHICAGO, IL, 60006-1080			EXAM	EXAMINER	
			CHUKWURAH, NATHANIEL C		
			ART UNIT	PAPER NUMBER	
			3721		
			MAIL DATE	DELIVERY MODE	
			07/19/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/532 572 ROBSON, ANGUS PETER Office Action Summary Examiner Art Unit NATHANIEL C. CHUKWURAH 3721 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 34-56 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 34-56 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 21 April 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application 3) Information-Displaceure-Statement(e) (FTO/SS/08)

Paper No(s)/Mail Date

6) Other:

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/26/2010 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 34-40, 41-43 and 45-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Jackson (US 1,731,576).

With regard to claim 34, Jackson discloses a hammer assembly, including:
a housing (1, 3); a hammer (4, 5) received in the housing (3); and a drive mechanism (20, 22, 25)
for reciprocating the hammer (4, 5), wherein the hammer is a substantially elongated weight with
first and second tool ends (6, 7) located at opposing longitudinal ends of the weight, such that in
use the hammer and the first and second tool ends (6, 7) reciprocate synchronously, where either
the first or second tool end extends through a lower opening end in the housing to strike an
external working surface during each cycle of the reciprocation, the hammer assembly

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characterised in that the hammer is capable of being removed from the housing, reversed and replaced in the housing, enabling either of the first and second tool ends orientated to extend through the lower opening end in the housing to be interchanged.

With regard to claim 35, Jackson shows wherein the hammer (4, 5) includes at least one protrusion (13 shoulder Fig. 4) on each of two opposing hammer faces adapted for engagement with the drive mechanism (20, 22, 25).

With regard to claim 36, Jackson shows wherein the hammer (4, 5) includes at least two protrusions (9, 13) adapted for engagement with the drive mechanism (20, 22, 25), the protrusions being located on a common hammer face.

With regard to claim 37, Jackson shows wherein the hammer (4, 5) includes a protrusion (13) thereon and the drive mechanism (20, 22, 25) includes a loop of chain (22, 26) having at least one dog (23) fixed thereto and a motor (25) for rotating the chain (22, 26), the dog (23) abutting the protrusion (9, 13) to lift the hammer (4, 5) away from the opening end of the housing (3).

With regard to claim 38, Jackson shows the housing which is configured for attachment to other machine as shown in Figure 1 and the drive mechanism (24, 25) is enclosed within the housing (1, 3).

With regard to claims 39 and 40, Jackson shows a cushion (14) fixed near the opening end of the housing (1, 3) for engaging the protrusion (13).

With regard to claim 41, Jackson shows wherein the hammer (4, 5) is adapted to drop under gravity (Fig. 1) toward the opening end of the housing before striking the working surface. Application/Control Number: 10/532,572

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With regard to claim 42, Jackson shows wherein the drive mechanism (20, 22, 25) includes means (9, 13) for engaging and driving the hammer from the housing to strike the working surface.

With regard to claim 43, Jackson shows wherein the hammer is propelled (when it drops) to strike the working surface by gravity and by engagement with the drive mechanism.

With regard to claim 45, Jackson shows wherein the hammer (6, 7) is multifaceted.

With regard to claim 46, Jackson shows wherein the opposing hammer tool ends are nonidentical (6, 7).

With regard to claim 47, Jackson shows wherein the tool ends are configured as a substantially flat surface and/or a spike.

With regard to claim 48, Jackson shows wherein the drive mechanism (20, 22, 25) configured to lift the hammer includes at least two sprockets (20, 21), and at least one dog (23) and a chain (22).

With regard to claim 49, Jackson shows wherein a dog (23) is attached to a chain (22) and is adapted to engage the protrusion (13).

With regard to claim 50, Jackson shows wherein a chain (22) is adapted to be rotated around the at least two sprockets (20, 21).

With regard to claim 51, Jackson shows wherein sprockets (20, 21), dog (23) and chain (22) are aligned substantially parallel to the hammer (4, 5).

With regard to claim 52, Jackson shows wherein sprockets (20, 21), dog (23) and chain (22) are aligned substantially perpendicular to the hammer (in a different orientation).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 44 and 53-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jackson (US 1,731,576) in view of Robson (US 5,363,835).

With regard to claim 44, Jackson discloses the substantially the invention but fails to show wherein the hammer is cylindrical. Robson teaches that it is old and well known in the art to provide hammer (2, 7) that is cylindrical in shape. Thus, it would have been obvious to one skilled in the art to modify Jackson hammer by providing the cylindrical hammer which has the same advantage as other types of hammer for the purpose of breaking an object.

With regard to claim 53, modified Jackson invention includes a connecting apparatus (22 Robson) between the hammer and the hammer housing.

With regard to claim 54, modified Jackson invention connecting apparatus (22 Robson) is capable of elastic deformation.

With regard to claim 55, modified Jackson invention connecting apparatus (22 Robson) is considered detachable.

 Claim 56 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jackson (US 1.731.576) in view of Kikel (US 4, 848.197). With regard to claim 56, Jackson discloses the substantially the invention but fails to show the steps of: withdrawing the hammer from the housing, reversing the orientation of the hammer, and reinserting the hammer into the housing.

Kikel discloses a multiple bit of interchanging tool ends including tool housing (2), and a method step of, withdrawing the tool bit (5) considered to be a hammer since the bit can be used as a hammer by hitting with the tool bit; reversing and reinserting the tool into the housing (2).

Thus, it would have been obvious to one skilled in the art to provide Jackson with the step of withdrawing, reversing and reinserting the tool into the housing for the purpose of doing task required of a different tool end.

Response to Arguments

 Applicant's arguments with respect to claims 34-56 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- Refer to attachment for notice of references cited and recommended for consideration based on their disclosure of limitations of the claimed invention.
- Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to NATHANIEL C. CHUKWURAH whose telephone number is
 (571)272-4457. The examiner can normally be reached on M-F 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on (571) 272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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10. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nathaniel C. Chukwurah/ Examiner, Art Unit 3721

/Rinaldi I Rada/ Supervisory Patent Examiner, Art Unit 3721

7/14/2010